

Wellhead Closure Checklist

COGCC Rule 911.a.(4) Environmental Site Closure Assessment Field Form

Additional attachments (optional):		Pit Closure		Tank Battery Closure		Flowline Closure		Partially Buried Vault Closure
Site Name & COGCC Facility Number: Richter USX AB #27-13		Date: 05/01/23					Remediation Project #: 27763	
Associated Wells: 05-123-32724		Age of Site: Years					Number of Photos Attached: 1	
Location: (GPS coordinates of wellhead or southeastern most wellhead for multiple) 40.538990 / -104.543010							Estimated Facility Size (acres): N/A	
General Condition of Site: (General observations regarding housekeeping, corrosion, waste management, etc.) Good condition								
USCS Soil Type: sandy CLAY					Estimated Depth to Groundwater: Approx. 10-20'			
Hydrocarbon Impacted Soils / Spills: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.								
Salt Crusted Soils or Impacted Vegetation: (Note estimated size and if impact appears to be surficial or extends to an unknown depth) None observed.								
Wellhead(s)								
Well API	05-123-32724							
Age	Years							
Condition of surface around wellhead	Good - Per Crew							
PID Readings	N/A - Excavated Upon Arrival							
Condition of subsurface (staining present)	Good - No odor/no staining							
PID Readings	1.2	1.1	1.7	1.9	2.8			
Sample taken? Location/Sample ID#	WH-SS-01	WH-SS-02	WH-SS-03	WH-SS-04	WH-FS-01			
Photo Number(s)	See photolog							
Other observations regarding wellheads: Well casing cut/capped following assessment.								
Summary								
Was impacted soil identified? <input checked="" type="checkbox"/> No Yes - less than 10 cubic yards Yes - more than 10 cubic yards								
Total number of samples field screened: 5				Total number of samples collected: 5				
Highest PID Reading: 2.8				Total number of samples submitted to lab for analysis: 1				
If more than 10 cubic yards of impacted soil were observed:								
Vertical extent:				Estimated spill volume:				
Lateral extent:				Volume of soil removed:				
Is additional investigation required?				N/A				
Was groundwater encountered during the investigation? <input checked="" type="checkbox"/> No Yes - not impacted or in contact with impacted soils Yes - groundwater impacted and/or in contact with impacted soils								
Measured depth to groundwater:				Was remedial groundwater removal conducted? Yes No				
Date Groundwater was encountered:				Commencement date of removal:				
Sheen on groundwater? Yes No				Volume of groundwater removed prior to sampling:				
Free product observed? Yes No				Volume of groundwater removed post sampling:				
Total number of samples collected:				Total Volume of groundwater removed:				
Total number of samples submitted to lab for analysis:								

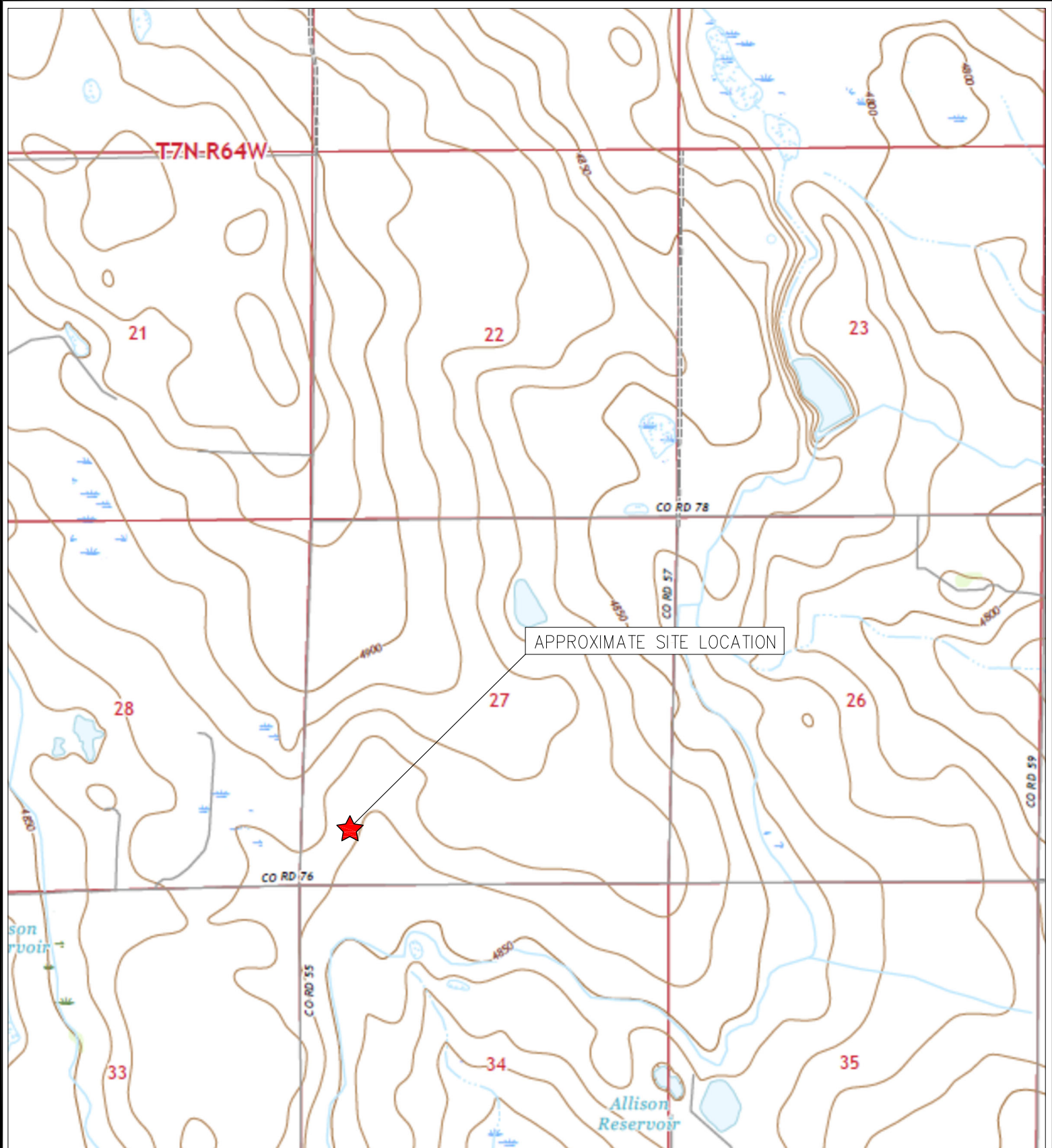


FIGURES

Figure 1: Topographic Site Location Map

Figure 2: Aerial Site Location Map

Figure 3: Soil Analytical Map



TOPOGRAPHIC SITE LOCATION MAP
 RICHTER USX AB #27-13
 CLOSURE ASSESSMENT
 40.538990 / -104.543010
 SW¼ SW¼ SEC.27 T7N R64W 6PM
 WELD COUNTY, COLORADO
 API # 05-123-32724
 REMEDIATION # 27763

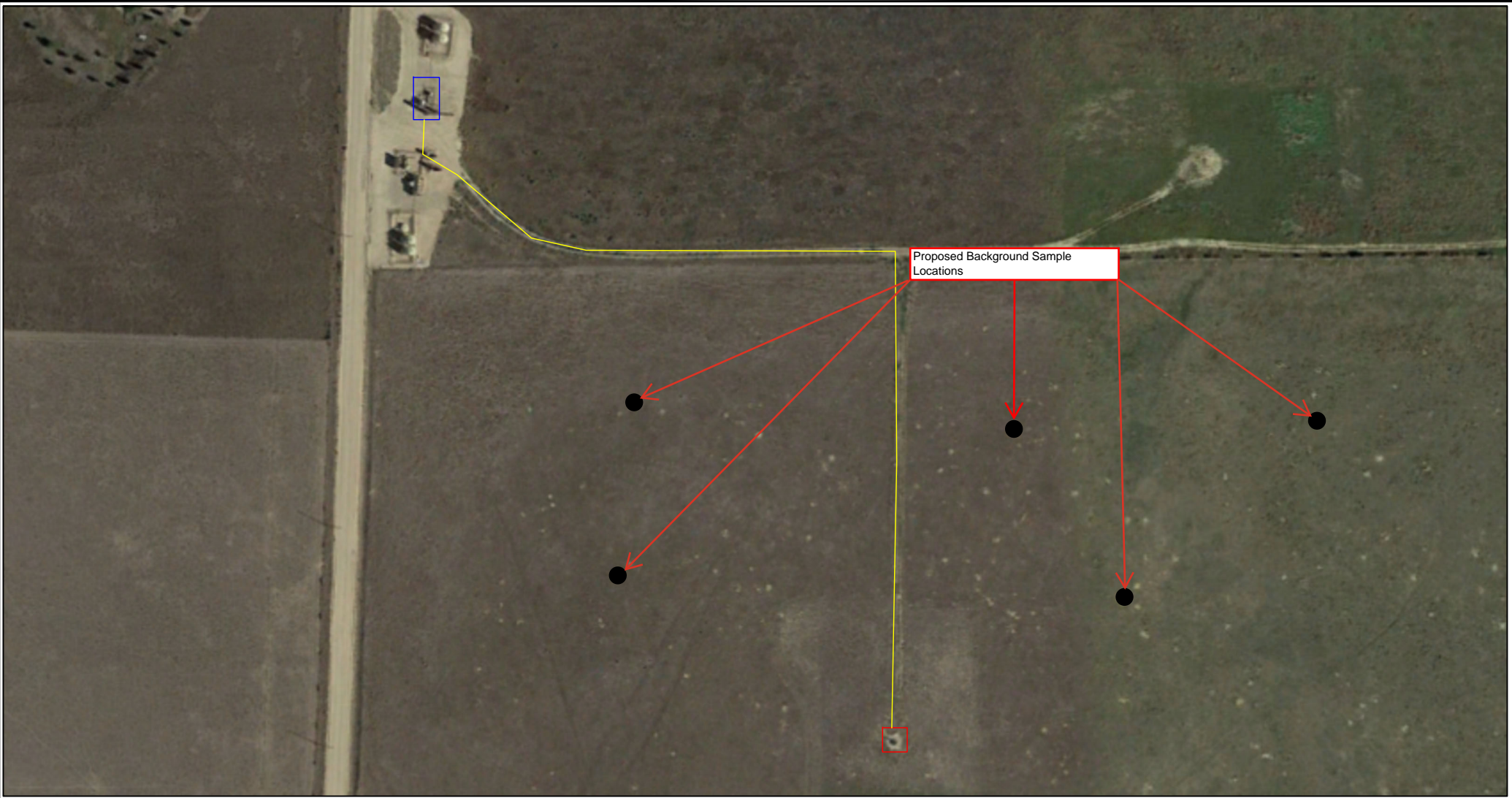


EAGLE
 ENVIRONMENTAL
 CONSULTING, LLC

8000 W 44th Ave, Wheat Ridge, CO 80033
 Ph: 303-433-0479 • F: 303-325-5449

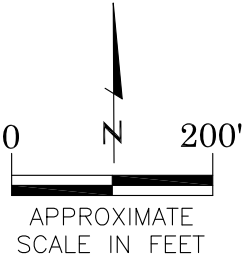
SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP
 GALETON, CO QUADRANGLE 2022

FIGURE NO. 1



LEGEND

- FORMER RICHTER USX AB #27-13 WELLHEAD (PLUGGED AND ABANDONED)
- ASSOCIATED SEPARATOR
- APPROXIMATE FLOWLINE LOCATION



AERIAL SITE LOCATION MAP
RICHTER USX AB #27-13
CLOSURE ASSESSMENT
40.538990 / -104.543010
SW¼ SW¼ SEC.27 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-32724
REMEDATION # 27763

FIGURE NO.
2

DRAWN BY:
CT



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LEGEND

- WELLHEAD ASSESSMENT BOUNDARIES
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES FIELD SCREENED, ONLY, WITH PHOTOIONIZATION DETECTOR
- SS-02 APPROXIMATE LOCATION OF SOIL SAMPLES SUBMITTED FOR LABORATORY ANALYSIS

PARAMETERS

SAMPLE LOCATION
DATE
DEPTH (FEET)
B = BENZENE (mg/kg)
T = TOLUENE (mg/kg)
E = ETHYLBENZENE (mg/kg)
X = TOTAL XYLENES (mg/kg)
G = TPH-GRO (mg/kg)
D = TPH-DRO (mg/kg)
R = TPH-RRO (mg/kg)
1,2,4-TMB = 1,2,4 TRIMETHYLBENZENE (mg/kg)
1,3,5-TMB = 1,3,5 TRIMETHYLBENZENE (mg/kg)
Brn= BORON (mg/L)
EC = SPECIFIC CONDUCTANCE (mmhos/cm)
SAR= SODIUM ADSORPTION RATIO
pH = pH (pH UNITS)
POLYCYCLIC AROMATIC HYDROCARBONS (PAHs) (mg/kg)

mg/kg = MILLIGRAMS PER KILOGRAM
mg/L = MILLIGRAMS PER LITER
mmhos/cm = MILLIMHOS PER CENTIMETER

(BRL) = ALL VALUES BELOW REGULATORY LIMITS

TPH-GRO = TOTAL PETROLEUM HYDROCARBONS – GASOLINE RANGE ORGANICS
TPH-DRO = TOTAL PETROLEUM HYDROCARBONS – DIESEL RANGE ORGANICS
TPH-RRO = TOTAL PETROLEUM HYDROCARBONS – RESIDUAL RANGE ORGANICS

NOTES:
LABORATORY RERUNS WERE COMPLETED AS APPLICABLE ON SAMPLES WITH SOIL SUITABILITY VALUES OUTSIDE ECMC TABLE 915-1 REGULATORY RANGE. RESULTS OF THE RERUNS ARE PRESENTED IN PARENTHESES.

VALUES PRESENTED IN **BOLD** EXCEED ECMC TABLE 915-1 REGULATORY LIMITS.

VALUES PRESENTED WITH ASTERISK (*) EXCEED ECMC TABLE 915-1 PROTECTION OF GROUNDWATER SOIL SCREENING LEVELS, ONLY.

ECMC = ENERGY AND CARBON MANAGEMENT COMMISSION

SOIL ANALYTICAL MAP
RICHTER USX AB #27-13
CLOSURE ASSESSMENT
40.538990 / -104.543010
SW¼ SW¼ SEC.27 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-32724
REMEDATION # 27763

FIGURE NO.
3

DRAWN BY:
CT



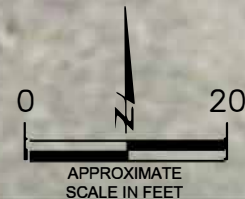
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WH-FS-01 Resample
Location

Proposed pH Delineation Samples

WH-FS-01

BACKGROUND-01





TABLES

Table 1: Photoionization Detector Reading Summary

Table 2: Soil Analytical Results Summary

TABLE 1
PHOTOIONIZATION DETECTOR READING SUMMARY
RICHTER USX AB #27-13
CLOSURE ASSESSMENT
40.538990 / -104.543010
SW¼ SW¼ SEC.27 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-32724
REMEDATION # 27763

Sample Location (Latitude/Longitude)	Date	Approximate Depth (feet)	PID Reading (ppm-v)	Lab Submission (Y/N)
WH-SS-01 @ 5' (40.539014 / -104.543011)	05/01/23	5	1.2	N
WH-SS-02 @ 5' (40.538994 / -104.542981)	05/01/23	5	1.1	N
WH-SS-03 @ 5' (40.538974 / -104.543015)	05/01/23	5	1.7	N
WH-SS-04 @ 5' (40.538998 / -104.543042)	05/01/23	5	1.9	N
WH-FS-01 @ 6' (40.538995 / -104.543011)	05/01/23	6	2.8	Y
Background-01 @ 2' (40.538962 / -104.542960)	05/01/23	2	1.4	Y
(Y/N) = Yes or No ppm-v = parts per million by volume PID = Photoionization Detector				



TABLE 2
SOIL ANALYTICAL RESULTS SUMMARY
RICHTER USX AB #27-13
CLOSURE ASSESSMENT
40.538990 / -104.543010
SW¼ SW¼ SEC.27 T7N R64W 6PM
WELD COUNTY, COLORADO
API # 05-123-32724
REMEDATION # 27763

Sample Location			WH-FS-01 @ 6'		Background-01 @ 2'	
(Latitude / Longitude)			(40.538995 / -104.543011)		(40.538962 / -104.542960)	
Sample Date			5/1/2023		5/1/2023	
Sample Depth			6'		2'	
PID Reading (ppm-v)			2.8		1.4	
Regulatory Limits						
Chemical of Concern	Units	ECMC Table 915-1 RSSLs	ECMC Table 915-1 GSSLs			
VOCs						
Benzene	mg/kg	1.2	0.0026	<0.00200		NA
Toluene	mg/kg	490	0.69	<0.00200		NA
Ethylbenzene	mg/kg	5.8	0.78	<0.00200		NA
Total Xylenes	mg/kg	58	9.9	<0.00200		NA
1,2,4-Trimethylbenzene	mg/kg	30	0.0081	<0.00200		NA
1,3,5-Trimethylbenzene	mg/kg	27	0.0087	<0.00200		NA
TOTAL PETROLEUM HYDROCARBONS						
TPH-GRO	mg/kg	500	--	<0.200		NA
TPH-DRO	mg/kg	500	--	<25.0		NA
TPH-RRO	mg/kg	500	--	<100		NA
POLYCYCLIC AROMATIC HYDROCARBONS						
1-Methyl-naphthalene	mg/kg	18	0.006	<0.00201		NA
2-Methyl-naphthalene	mg/kg	24	0.019	<0.00201		NA
Acenaphthene	mg/kg	360	0.55	<0.00067		NA
Anthracene	mg/kg	1800	5.8	<0.00067		NA
Benzo(a)-anthracene	mg/kg	1.1	0.011	<0.00067		NA
Benzo(a)-pyrene	mg/kg	0.11	0.24	<0.00067		NA
Benzo(b)-fluoranthene	mg/kg	1.1	0.3	<0.00067		NA
Benzo(k)-fluoranthene	mg/kg	11	2.9	<0.00067		NA
Chrysene	mg/kg	110	9	<0.00067		NA
Dibenzo(a,h)-anthracene	mg/kg	0.11	0.096	<0.00067		NA
Fluoranthene	mg/kg	240	8.9	<0.00067		NA
Fluorene	mg/kg	240	0.54	<0.00067		NA
Indeno(1,2,3-cd)-pyrene	mg/kg	1.1	0.98	<0.00067		NA
Naphthalene	mg/kg	2	0.0038	<0.00201		NA
Pyrene	mg/kg	180	1.3	<0.00067		NA
SOIL SUITABILITY (Inorganics)						
Boron	mg/L	2	--	0.270		NA
pH	standard unit	6-8.3	--	9.03 (8.41/8.46)		7.77
Sodium Adsorption Ratio (SAR)	--	<6	--	1.38		NA
Specific Conductance (EC)	mmhos/cm	<4	--	0.340		NA
ECMC = Energy and Carbon Management Commission		NA - Not Analyzed		VOCs - Volatile Organic Compounds		
mg/kg = milligrams per kilogram						
mmhos/cm = millimhos per centimeter		RSSLs = Residential Soil Screening Levels				
PID = Photoionization Detector		GSSLs = Protection of Groundwater Soil Screening Levels				
ppm-v = parts per million by volume		TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics				
mg/L = milligrams per liter		TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics				
SAR = Sodium Adsorption Ratio		TPH-RRO = Total Petroleum Hydrocarbons - Residual Range Organics				
Notes:						
Values presented with a less than symbol (<) did not contain concentrations at or above the laboratory reporting limit and/or minimum detection limit.						
Values presented in BOLD exceed ECMC Table 915-1 Regulatory Limits.						
Laboratory reruns were completed as applicable on samples with Soil Suitability values outside ECMC Table 915-1 Regulatory Range. Results of the reruns are presented in parentheses.						



ATTACHMENT A

Photo Log

Richter USX AB #27-13

API # 05-123-32724

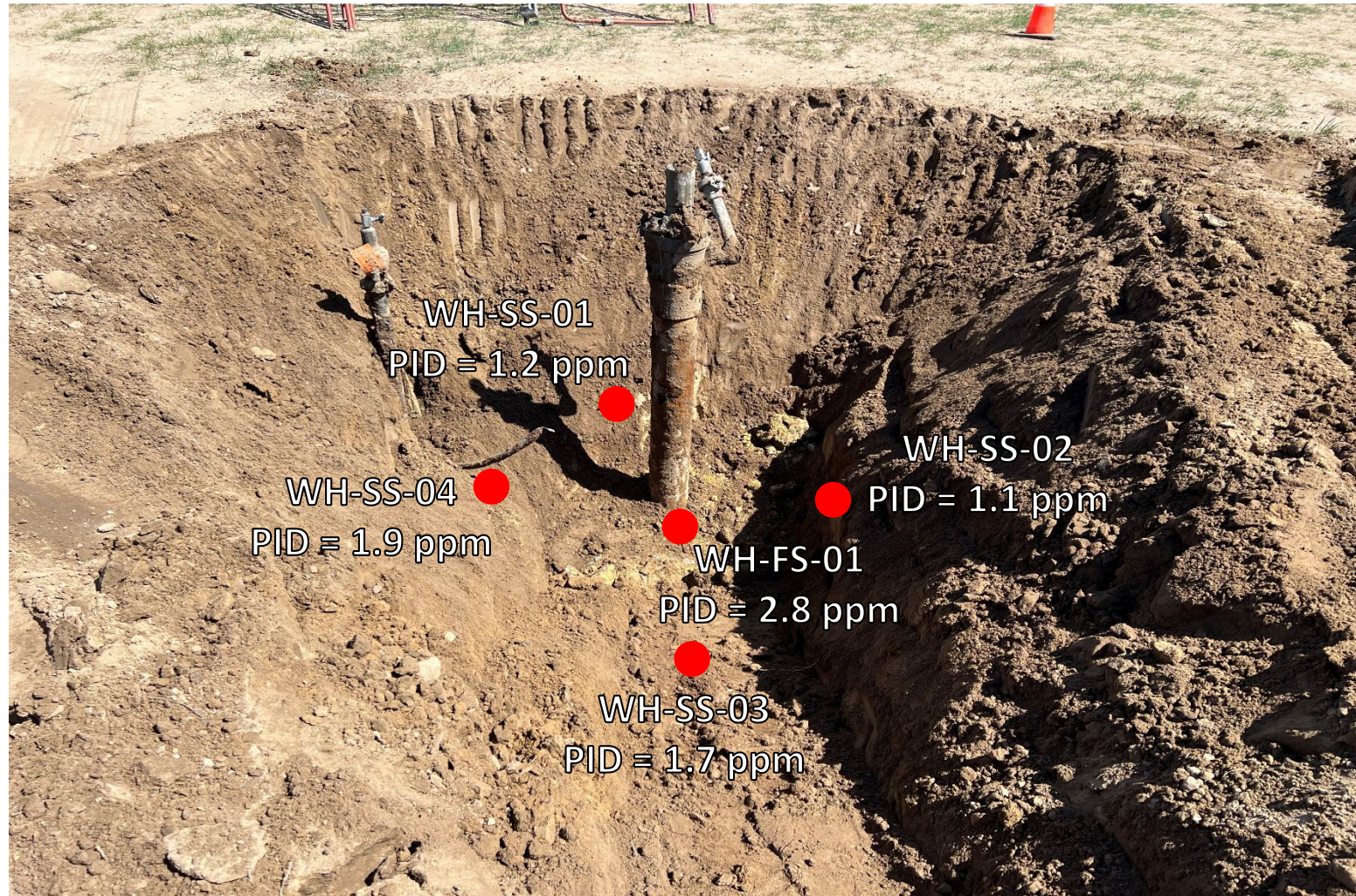
Remediation # 27763

Closure Assessment

May 2023



Wellhead Excavation – 05/01/23



Looking north

No petroleum hydrocarbon staining or odor observed



ATTACHMENT B

Laboratory Analytical Reports



May 25, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Richter USX AB #27-13

Project Number - [none]

Attached are your analytical results for Noble - Richter USX AB #27-13 received by Origins Laboratory, Inc. May 01, 2023. This project is associated with Origins project number Y305044-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WH-FS-01@6'	Y305044-01	Soil	May 1, 2023 10:58	05/01/2023 15:50

Chain of Custody Modification Request

On 5/15/2023, Grace Congdon from Eagle Environmental contacted Jennifer Pellegrini via email regarding Y305044 requesting that the pH be rerun.

Requested modifications to the chain of custody were made by Jennifer Pellegrini on 5/15/2023. No errors were found in the original data, all three results are reported. JAB

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Jordan A. Bynon, Project Manager

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

[illegible]

Origins Laboratory, Inc.

Byron

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4305044

Client: Eagle

Client Project ID: Richter USX AB #27-13

Checklist Completed by: EHS/HST

Shipped Via: HD
(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/2/23

Airbill #: 80

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 115 °C 1 °C 1 °C (Describe) °C

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	/			
Is there ice present (document if blue ice is used)	/			
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)			/	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)			/	
Were all samples received intact ⁽¹⁾ ?	/			
Was adequate sample volume provided ⁽¹⁾ ?	/			
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?		/		
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	/			
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	/			
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	/			
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	/			
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.			/	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)			/	
Additional Comments (if any):				

⁽¹⁾ If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

5/3/23
Date/Time Reviewed

Origins Laboratory, Inc.

[Signature]

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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

WH-FS-01@6'
5/1/2023 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305044-01 (Soil)

Boron (DTPA Sorbitol)

Boron	0.270	0.101	mg/L	1	B3E0207	05/02/2023	05/10/2023	
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DRO/ORO by EPA 8015D

Diesel (C10-C28)	ND	25.0	mg/kg	1	B3E0321	05/03/2023	05/08/2023	U
Residual Range Organics (C28-C40)	ND	100	"	"	"	"	"	U

Surrogate: o-Terphenyl	80.2 %	50-150			"	"	"	
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GBTEX+TMBs by 8260D

1,2,4-Trimethylbenzene	ND	0.00200	mg/kg	1	B3E0223	05/02/2023	05/03/2023	U
1,3,5-Trimethylbenzene	ND	0.00200	"	"	"	"	"	U
Benzene	ND	0.00200	"	"	"	"	"	U
Ethylbenzene	ND	0.00200	"	"	"	"	"	U
Naphthalene	ND	0.00380	"	"	"	"	"	U
Toluene	ND	0.00200	"	"	"	"	"	U
Xylenes, total	ND	0.00200	"	"	"	"	"	U
Gasoline Range Hydrocarbons	ND	0.200	"	"	"	"	"	U

Origins Laboratory, Inc.



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Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

WH-FS-01@6'

5/1/2023 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	---------------------	-----------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y305044-01 (Soil)

GBTEX+TMBs by 8260D

Surrogate: 1,2-Dichloroethane-d4	97.2 %		70-130			B3E02 23	05/02/2023	05/03/2023	
Surrogate: Toluene-d8	90.9 %		70-130			"	"	"	
Surrogate: 4-Bromofluorobenzene	105 %		70-130			"	"	"	

Metals by Saturated Paste by EPA 6010

Calcium	0.822		0.499	meq/L	10	[CALC]	05/03/2023	05/05/2023	
Magnesium	ND		0.823	"	"	"	"	"	
Sodium	1.07		0.435	"	"	"	"	"	

PAH by 8270D SIM

1-Methylnaphthalene	ND	0.00109	0.00201	mg/Kg	1	L679794	05/03/2023	05/04/2023	
2-Methylnaphthalene	ND	0.00194	0.00201	"	"	"	"	"	
Acenaphthene	ND	0.000304	0.00067	"	"	"	"	"	
Anthracene	ND	0.000334	0.00067	"	"	"	"	"	
Benzo(a)anthracene	ND	0.000493	0.00067	"	"	"	"	"	
Benzo(a)pyrene	ND	0.000468	0.00067	"	"	"	"	"	
Benzo(b)fluoranthene	ND	0.000585	0.00067	"	"	"	"	"	
Benzo(k)fluoranthene	ND	0.000437	0.00067	"	"	"	"	"	
Chrysene	ND	0.000624	0.00067	"	"	"	"	"	
Dibenz(a,h)anthracene	ND	0.000614	0.00067	"	"	"	"	"	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

WH-FS-01@6'

5/1/2023 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Waypoint Analytical, LLC.
Y305044-01 (Soil)

PAH by 8270D SIM

Fluoranthene	ND	0.000394	0.00067	mg/Kg	1	L679794	05/03/2023	05/04/2023
Fluorene	ND	0.000286	0.00067	"	"	"	"	"
Indeno(1,2,3-cd)pyrene	ND	0.000627	0.00067	"	"	"	"	"
Naphthalene	ND	0.00145	0.00201	"	"	"	"	"
Pyrene	ND	0.000643	0.00067	"	"	"	"	"

Surrogate: 2-Fluorobiphenyl	50.5 %	33-115	"	"	"
Surrogate: 4-Terphenyl-d14	57.1 %	33-122	"	"	"
Surrogate: Nitrobenzene-d5	52.9 %	29-110	"	"	"

pH in Soil by 9045D

pH	9.03	pH Units	1	B3E0311	05/03/2023	05/04/2023
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SAR by 20B Saturated Paste

SAR	1.38	SAR	1	B3E0305	05/03/2023	05/05/2023
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Specific Conductance Mod. 9050A

Specific Conductance (EC)	0.340	0.00500 mmhos/cm	1	B3E0311	05/03/2023	05/04/2023
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

WH-FS-01@6'

5/1/2023 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
---------	--------	------------------------	--------------------	-------	----------	-------	----------	----------	-------

Origins Laboratory, Inc.
Y305044-01RE1 (Soil)

pH in Soil by 9045D

pH	8.41			pH Units	1	B3E1712	05/03/2023	05/18/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

WH-FS-01@6'

5/1/2023 10:58:00AM

Analyte	Result	Min Detection Limit	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305044-01RE2 (Soil)

pH in Soil by 9045D

pH	8.46			pH Units	1	B3E1712	05/03/2023	05/18/2023	
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3E0223 - EPA 5030 (soil)										
Blank (B3E0223-BLK1)					Prepared: 05/02/2023 Analyzed: 05/03/2023					
1,2,4-Trimethylbenzene	ND	0.00200	mg/kg							U
1,3,5-Trimethylbenzene	ND	0.00200	"							U
Benzene	ND	0.00200	"							U
Ethylbenzene	ND	0.00200	"							U
Naphthalene	ND	0.00380	"							U
Toluene	ND	0.00200	"							U
Xylenes, total	ND	0.00200	"							U
Gasoline Range Hydrocarbons	ND	0.200	"							U
Surrogate: 1,2-Dichloroethane-d4	0.11		"	0.125	90.3		70-130			
Surrogate: Toluene-d8	0.12		"	0.125	92.8		70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125	105		70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3E0223 - EPA 5030 (soil)										
LCS (B3E0223-BS1)					Prepared: 05/02/2023 Analyzed: 05/03/2023					
1,2,4-Trimethylbenzene	0.102	0.00200	mg/kg	0.100		102	70-130			
1,3,5-Trimethylbenzene	0.104	0.00200	"	0.100		104	70-130			
Benzene	0.0943	0.00200	"	0.100		94.3	70-130			
Ethylbenzene	0.101	0.00200	"	0.100		101	70-130			
Naphthalene	0.0982	0.00380	"	0.100		98.2	70-130			
Toluene	0.0842	0.00200	"	0.100		84.2	70-130			
o-Xylene	0.100	0.00200	"	0.100		100	70-130			
m,p-Xylene	0.203	0.00400	"	0.200		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		99.2	70-130			
Surrogate: Toluene-d8	0.12		"	0.125		92.6	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		102	70-130			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3E0223 - EPA 5030 (soil)										
Matrix Spike (B3E0223-MS1)		Source: Y305018-01			Prepared: 05/02/2023 Analyzed: 05/03/2023					
1,2,4-Trimethylbenzene	0.0643	0.00200	mg/kg	0.100	ND	64.3	70-130			QM-07
1,3,5-Trimethylbenzene	0.0687	0.00200	"	0.100	ND	68.7	70-130			QM-07
Benzene	0.0749	0.00200	"	0.100	ND	74.9	70-130			
Ethylbenzene	0.0733	0.00200	"	0.100	ND	73.3	70-130			
Naphthalene	0.0686	0.00380	"	0.100	ND	68.6	70-130			QM-07
Toluene	0.0616	0.00200	"	0.100	ND	61.6	70-130			QM-07
o-Xylene	0.0726	0.00200	"	0.100	ND	72.6	70-130			
m,p-Xylene	0.145	0.00400	"	0.200	ND	72.7	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.13		"	0.125		100	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3E0223 - EPA 5030 (soil)										
Matrix Spike Dup (B3E0223-MSD1)		Source: Y305018-01			Prepared: 05/02/2023 Analyzed: 05/03/2023					
1,2,4-Trimethylbenzene	0.0780	0.00200	mg/kg	0.100	ND	78.0	70-130	19.2	20	
1,3,5-Trimethylbenzene	0.0819	0.00200	"	0.100	ND	81.9	70-130	17.6	20	
Benzene	0.0820	0.00200	"	0.100	ND	82.0	70-130	9.03	20	
Ethylbenzene	0.0856	0.00200	"	0.100	ND	85.6	70-130	15.5	20	
Naphthalene	0.0819	0.00380	"	0.100	ND	81.9	70-130	17.8	20	
Toluene	0.0698	0.00200	"	0.100	ND	69.8	70-130	12.5	20	QM-07
o-Xylene	0.0851	0.00200	"	0.100	ND	85.1	70-130	15.9	20	
m,p-Xylene	0.171	0.00400	"	0.200	ND	85.5	70-130	16.2	20	
Surrogate: 1,2-Dichloroethane-d4	0.12		"	0.125		98.6	70-130			
Surrogate: Toluene-d8	0.11		"	0.125		90.8	70-130			
Surrogate: 4-Bromofluorobenzene	0.13		"	0.125		107	70-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Volatile Organic Compounds by GC/MS SW846 8260D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3E0321 - EPA 3550B										
Blank (B3E0321-BLK1)					Prepared: 05/03/2023 Analyzed: 05/08/2023					
Diesel (C10-C28)	ND	25.0	mg/kg							U
Residual Range Organics (C28-C40)	ND	100	"							U
Surrogate: o-Terphenyl	19		"	24.9		76.5	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3E0321 - EPA 3550B

LCS (B3E0321-BS1)

Prepared: 05/03/2023 Analyzed: 05/08/2023

Diesel (C10-C28)	958	50.0	mg/kg	1000		95.8	70-130			
Residual Range Organics (C28-C40)	984	200	"	1000		98.4	70-130			
Surrogate: o-Terphenyl	49		"	49.8		98.1	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3E0321 - EPA 3550B

Matrix Spike (B3E0321-MS1)		Source: Y305010-02			Prepared: 05/03/2023 Analyzed: 05/08/2023					
Diesel (C10-C28)	823	50.0	mg/kg	1000	ND	82.3	70-130			
Residual Range Organics (C28-C40)	848	200	"	1000	ND	84.8	70-130			
Surrogate: o-Terphenyl	41		"	49.8		82.4	50-150			

Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3E0321 - EPA 3550B										
Matrix Spike Dup (B3E0321-MSD1)		Source: Y305010-02			Prepared: 05/03/2023 Analyzed: 05/08/2023					
Diesel (C10-C28)	834	50.0	mg/kg	1000	ND	83.4	70-130	1.29	35	
Residual Range Organics (C28-C40)	851	200	"	1000	ND	85.1	70-130	0.342	35	
Surrogate: o-Terphenyl	41		"	49.8		83.1	50-150			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Extractable Petroleum Hydrocarbons by 8015D - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Classical Chemistry Parameters - Quality Control

Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3E0207 - DTPA Sorbitol Preparation

Blank (B3E0207-BLK1)

Prepared: 05/02/2023 Analyzed: 05/03/2023

Boron ND 0.100 mg/L

Duplicate (B3E0207-DUP1)

Source: Y304640-03

Prepared: 05/02/2023 Analyzed: 05/03/2023

Boron 0.813 0.102 mg/L 0.718 12.4 50

Batch B3E0305 - Saturated Paste Metals

Blank (B3E0305-BLK1)

Prepared: 05/03/2023 Analyzed: 05/05/2023

SAR 0.00 SAR

Calcium PPM ND 10.0 mg/L

Magnesium PPM ND 10.0 "

Sodium PPM ND 10.0 "

Duplicate (B3E0305-DUP1)

Source: Y305044-01

Prepared: 05/03/2023 Analyzed: 05/05/2023

SAR 0.00 SAR 1.38 200 200

Calcium PPM 17.3 10.0 mg/L 16.5 4.97 50

Magnesium PPM 5.94 10.0 " 4.67 23.9 50

Sodium PPM 24.8 10.0 " 24.6 0.486 50

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Saturated Paste - Quality Control Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch B3E0311 - Saturated Paste pH/EC										
Blank (B3E0311-BLK1)					Prepared: 05/03/2023 Analyzed: 05/04/2023					
Specific Conductance (EC)	ND	0.00500	mmhos/cm							
Duplicate (B3E0311-DUP1)					Source: Y305044-01 Prepared: 05/03/2023 Analyzed: 05/04/2023					
Specific Conductance (EC)	0.296	0.00500	mmhos/cm		0.340			14.1	25	
pH	8.35		pH Units		9.03			7.83	25	
Batch B3E1712 - Saturated Paste pH/EC										
Duplicate (B3E1712-DUP1)					Source: Y305178-01 Prepared: 05/17/2023 Analyzed: 05/18/2023					
pH	8.60		pH Units		8.62			0.232	25	

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L679794 - 3550B

MSD (L 85919-MSD-L679794)		Source: 85919			Prepared: 05/03/2023 Analyzed: 05/04/2023					
Fluorene	0.128	0.00067	mg/Kg	0.165	<0.000286	77.5	30-130	21.6	30	
1-Methylnaphthalene	0.112	0.00201	"	0.165	<0.00109	67.8	30-130	20.9	30	
Pyrene	0.132	0.00067	"	0.165	<0.000643	80	30-130	25.6	30	
Indeno(1,2,3-cd)pyrene	0.122	0.00067	"	0.165	0.000874	73.4	30-130	24.8	30	
Fluoranthene	0.133	0.00067	"	0.165	0.000454	80.3	30-130	24.4	30	
Dibenz(a,h)anthracene	0.144	0.00067	"	0.165	<0.000614	87.2	30-130	25.8	30	
Chrysene	0.133	0.00067	"	0.165	<0.000624	80.6	30-130	28.3	30	
Naphthalene	0.0995	0.00201	"	0.165	<0.00145	60.3	30-130	22.2	30	
2-Methylnaphthalene	0.105	0.00201	"	0.165	<0.00194	63.6	30-130	21.8	30	
Benzo(k)fluoranthene	0.108	0.00067	"	0.165	<0.000437	65.4	30-130	28.3	30	
Acenaphthene	0.121	0.00067	"	0.165	<0.000304	73.3	30-130	20.3	30	
Anthracene	0.133	0.00067	"	0.165	<0.000334	80.6	30-130	25.4	30	
Benzo(a)anthracene	0.132	0.00067	"	0.165	<0.000493	80	30-130	27.5	30	
Benzo(a)pyrene	0.134	0.00067	"	0.165	<0.000468	81.2	30-130	33.6	30	*
Benzo(b)fluoranthene	0.11	0.00067	"	0.165	0.000777	66.1	30-130	25.5	30	
Surrogate: 2-Fluorobiphenyl	65.7		"	0.33	205	65.7	33-115			
Surrogate: Nitrobenzene-d5	63.3		"	0.33	185	63.3	29-110			
Surrogate: 4-Terphenyl-d14	74.5		"	0.33	215	74.5	33-122			

MS (L 85919-MS-L679794)		Source: 85919			Prepared: 05/03/2023 Analyzed: 05/04/2023					
Benzo(k)fluoranthene	0.0812	0.00067	mg/Kg	0.166	<0.000437	48.9	30-130			
Acenaphthene	0.0987	0.00067	"	0.166	<0.000304	59.4	30-130			
Naphthalene	0.0796	0.00201	"	0.166	<0.00145	47.9	30-130			
Indeno(1,2,3-cd)pyrene	0.095	0.00067	"	0.166	0.000874	56.7	30-130			
Fluorene	0.103	0.00067	"	0.166	<0.000286	62	30-130			
Fluoranthene	0.104	0.00067	"	0.166	0.000454	62.3	30-130			
Dibenz(a,h)anthracene	0.111	0.00067	"	0.166	<0.000614	66.8	30-130			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch L679794 - 3550B

MS (L 85919-MS-L679794)		Source: 85919			Prepared: 05/03/2023 Analyzed: 05/04/2023					
Chrysene	0.1	0.00067	mg/Kg	0.166	<0.000624	60.2	30-130			
1-Methylnaphthalene	0.0908	0.00201	"	0.166	<0.00109	54.6	30-130			
Benzo(a)pyrene	0.0954	0.00067	"	0.166	<0.000468	57.4	30-130			
Anthracene	0.103	0.00067	"	0.166	<0.000334	62	30-130			
Pyrene	0.102	0.00067	"	0.166	<0.000643	61.4	30-130			
2-Methylnaphthalene	0.0843	0.00201	"	0.166	<0.00194	50.7	30-130			
Benzo(b)fluoranthene	0.0851	0.00067	"	0.166	0.000777	50.7	30-130			
Benzo(a)anthracene	0.1	0.00067	"	0.166	<0.000493	60.2	30-130			
Surrogate: Nitrobenzene-d5	50.9		"	0.332	185	50.9	29-110			
Surrogate: 4-Terphenyl-d14	58.7		"	0.332	215	58.7	33-122			
Surrogate: 2-Fluorobiphenyl	53.9		"	0.332	205	53.9	33-115			

LCS (LCS-L679794)		Prepared: 05/03/2023 Analyzed: 05/04/2023								
Chrysene	0.119	0.00067	mg/Kg	0.167		71.2	30-130			
Dibenz(a,h)anthracene	0.157	0.00067	"	0.167		94	30-130			
Fluoranthene	0.121	0.00067	"	0.167		72.4	30-130			
Fluorene	0.119	0.00067	"	0.167		71.2	30-130			
Indeno(1,2,3-cd)pyrene	0.13	0.00067	"	0.167		77.8	30-130			
Naphthalene	0.0981	0.00201	"	0.167		58.7	30-130			
Pyrene	0.121	0.00067	"	0.167		72.4	30-130			
Benzo(k)fluoranthene	0.109	0.00067	"	0.167		65.2	30-130			
Benzo(a)pyrene	0.122	0.00067	"	0.167		73	30-130			
Benzo(a)anthracene	0.12	0.00067	"	0.167		71.8	30-130			
Anthracene	0.126	0.00067	"	0.167		75.4	30-130			
Acenaphthene	0.115	0.00067	"	0.167		68.8	30-130			
2-Methylnaphthalene	0.101	0.00201	"	0.167		60.4	30-130			
1-Methylnaphthalene	0.109	0.00201	"	0.167		65.2	30-130			

Origins Laboratory, Inc.



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8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

PAH by 8270D SIM - Quality Control
Waypoint Analytical, LLC.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch L679794 - 3550B										
LCS (LCS-L679794)					Prepared: 05/03/2023 Analyzed: 05/04/2023					
Benzo(b)fluoranthene	0.113	0.00067	mg/Kg	0.167		67.6	30-130			
Surrogate: Nitrobenzene-d5	64.2		"	0.333		64.2	29-110			
Surrogate: 4-Terphenyl-d14	72.3		"	0.333		72.3	33-122			
Surrogate: 2-Fluorobiphenyl	66.9		"	0.333		66.9	33-115			
LRB (LRB-L679794)					Prepared: 05/03/2023 Analyzed: 05/04/2023					
Chrysene	ND	0.00067	mg/Kg				-			
Dibenz(a,h)anthracene	ND	0.00067	"				-			
Fluoranthene	ND	0.00067	"				-			
Fluorene	ND	0.00067	"				-			
Benzo(k)fluoranthene	ND	0.00067	"				-			
Naphthalene	ND	0.00201	"				-			
Indeno(1,2,3-cd)pyrene	ND	0.00067	"				-			
Benzo(b)fluoranthene	ND	0.00067	"				-			
Benzo(a)pyrene	ND	0.00067	"				-			
Benzo(a)anthracene	ND	0.00067	"				-			
Acenaphthene	ND	0.00067	"				-			
2-Methylnaphthalene	ND	0.00201	"				-			
1-Methylnaphthalene	ND	0.00201	"				-			
Pyrene	ND	0.00067	"				-			
Anthracene	ND	0.00067	"				-			
Surrogate: Nitrobenzene-d5	51.6		"	0.333		51.6	29-110			
Surrogate: 4-Terphenyl-d14	60.9		"	0.333		60.9	33-122			
Surrogate: 2-Fluorobiphenyl	55.8		"	0.333		55.8	33-115			

Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Notes and Definitions

U Sample is Non-Detect.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

* QC Failure

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported on a wet weight basis.

Calculated results may use J-flag data (instead of reported "ND") as part of calculation to provide a more accurate result.

Origins Laboratory, Inc.



The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



May 24, 2023

Eagle Environmental Consulting, LLC

Martin C Eckert III

8000 W 44th Ave

Wheat Ridge CO 80033

Project Name - Noble - Richter USX AB #27-13

Project Number - [none]

Attached are your analytical results for Noble - Richter USX AB #27-13 received by Origins Laboratory, Inc. May 16, 2023. This project is associated with Origins project number Y305417-01.

The analytical results in the following report were analyzed under the guidelines of EPA Methods. These methods are identified as follows; "SW" are defined in SW-846, "EPA" are defined in 40CFR part 136 and "SM" are defined in the most current revision of Standard Methods For the Examination of Water and Wastewater.

The analytical results apply specifically to the samples and analyses specified per the attached Chain of Custody. As such, this report shall not be reproduced except in full, without the written approval of Origin's laboratory.

Unless otherwise noted, the analytical results for all soil samples are reported on a wet weight basis. All analytical analyses were performed under NELAP guidelines unless noted by a data qualifier.

Any holding time exceedances, deviations from the method specifications or deviations from Origins Laboratory's Standard Operating Procedures are outlined in the case narrative.

Thank you for selecting Origins for your analytical needs. Please contact us with any questions concerning this report, or if we can help with anything at all.

Origins Laboratory, Inc.
303.433.1322
o-squad@oelabinc.com



1725 Elk Place, Denver, CO 80211 | Phone: 303.433.1322 | Fax: 303.265.9645

Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Richter USX AB #27-13

CROSS REFERENCE REPORT

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
Background-01@2'	Y305417-01	Soil	May 1, 2023 11:00	05/16/2023 14:12

Origins Laboratory, Inc.



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Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

[illegible]

Origins Laboratory, Inc.

Byron

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Origins Laboratory

F-012207-01-R1
Effective Date: 01/09/12

Sample Receipt Checklist

Origins Work Order: 4205417

Client: Eagle

Client Project ID: Richter USX AB #27-13

Checklist Completed by: TSN/ENS

Shipped Via: HD

(UPS, FedEx, Hand Delivered, Pick-up, etc.)

Date/time completed: 5/10/13

Airbill #: NA

Matrix(s) Received: (Check all that apply): ☒ Soil/Solid ☐ Water ☐ Other: _____

Cooler Number/Temperature: 1 / 2 °C 1 °C 1 °C 1 °C (Describe)

Thermometer ID: T003

Requirement Description	Yes	No	N/A	Comments (if any)
If samples require cooling, was the temperature between 0°C to ≤ 6°C ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is there ice present (document if blue ice is used)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on cooler? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Are custody seals present on each sample container? (if so, document in comments if they are signed and dated, broken or intact)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Were all samples received intact ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Was adequate sample volume provided ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Are short holding time analytes or samples with HTs due within 48 hours present ⁽¹⁾ ?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Is a chain-of-custody (COC) present and filled out completely ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Does the COC agree with the number and type of sample bottles received ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Do the sample IDs on the bottle labels match the COC ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Is the COC properly relinquished by the client with date and time recorded ⁽¹⁾ ?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
For volatiles in water – is there headspace (> ¼ inch bubble) present? If yes, contact client and note in narrative.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Are samples preserved that require preservation and was it checked ⁽¹⁾ ? (note ID of confirmation instrument used in comments) / (preservation is not confirmed for subcontracted analyses in order to insure sample integrity)/(pH <2 for samples preserved with HNO ₃ , HCL, H ₂ SO ₄) / (pH >10 for samples preserved with NaAsO ₂ +NaOH, ZnAc+NaOH)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
Additional Comments (if any):				

⁽¹⁾If NO, then contact the client before proceeding with analysis and note date/time and person contacted as well as the corrective action to in the additional comments (above) and the case narrative.

Reviewed by (Project Manager) [Signature]

Date/Time Reviewed 5/17/13

Origins Laboratory, Inc.

[Signature]

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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Background-01@2'

5/1/2023 11:00:00AM

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Analyst	Prepared	Analyzed	Notes
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Origins Laboratory, Inc.
Y305417-01 (Soil)

pH in Soil by 9045D

pH	7.77	pH Units	1	B3E1909	HJD	05/19/2023	05/20/2023
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Origins Laboratory, Inc.



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Eagle Environmental Consulting, LLC
8000 W 44th Ave
Wheat Ridge CO 80033

Martin C Eckert III
Project Number: [none]
Project: Noble - Richter USX AB #27-13

Saturated Paste - Quality Control
Origins Laboratory, Inc.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch B3E1909 - Saturated Paste pH/EC

Duplicate (B3E1909-DUP1)

Source: Y305417-01

Prepared: 05/19/2023 Analyzed: 05/20/2023

pH	7.64		pH Units	7.77		1.69	25
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Origins Laboratory, Inc.



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Jordan A. Bynon, Project Manager

Eagle Environmental Consulting, LLC

8000 W 44th Ave

Wheat Ridge CO 80033

Martin C Eckert III

Project Number: [none]

Project: Noble - Richter USX AB #27-13

Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

All soil results are reported at a wet weight basis.

Origins Laboratory, Inc.



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